

## ABSTRACT

The present invention provides a method and system for automatically providing a memory system design. The method includes: (a) receiving memory system criteria; and (b) automatically extracting at least one memory system design based upon the memory system criteria. The present invention receives criteria which includes technical and market criteria. Based on these criteria, the present invention returns memory subsystem solutions. In the preferred embodiment, the solutions are selected from libraries of multiple memory type modules which use a single memory bus. If the solution does not exist in the libraries, a new solution is created. In this manner, the engineering time and resources required in designing the memory subsystem is reduced; a flexible memory system design is provided which addresses software development, obsolescence and market volatility problems; and a memory system design is provided which addresses the custom requirements of many different applications.

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